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LOGINID:ssspta1202jxp

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS 4	MAY 10	CA/CAplus enhanced with 1900-1906 U.S. patent records
NEWS 5	MAY 11	KOREAPAT updates resume
NEWS 6	MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS 7	MAY 30	IPC 8 Rolled-up Core codes added to CA/CAplus and USPATFULL/USPAT2
NEWS 8	MAY 30	The F-Term thesaurus is now available in CA/CAplus
NEWS 9	JUN 02	The first reclassification of IPC codes now complete in INPADOC
NEWS 10	JUN 26	TULSA/TULSA2 reloaded and enhanced with new search and and display fields
NEWS 11	JUN 28	Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 12	JUl 11	CHEMSAFE reloaded and enhanced
NEWS 13	JUl 14	FSTA enhanced with Japanese patents
NEWS 14	JUl 19	Coverage of Research Disclosure reinstated in DWPI
NEWS 15	AUG 09	INSPEC enhanced with 1898-1968 archive
NEWS 16	AUG 28	ADISCTI Reloaded and Enhanced
NEWS 17	AUG 30	CA(SM)/CAplus(SM) Austrian patent law changes
NEWS 18	SEP 11	CA/CAplus enhanced with more pre-1907 records
NEWS 19	SEP 21	CA/CAplus fields enhanced with simultaneous left and right truncation

NEWS EXPRESS	JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 17:43:37 ON 23 SEP 2006

=> file reg
COST IN U.S. DOLLARS SINCE FILE TOTAL

	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 17:43:54 ON 23 SEP 2006

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 22 SEP 2006 HIGHEST RN 908329-88-4
DICTIONARY FILE UPDATES: 22 SEP 2006 HIGHEST RN 908329-88-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

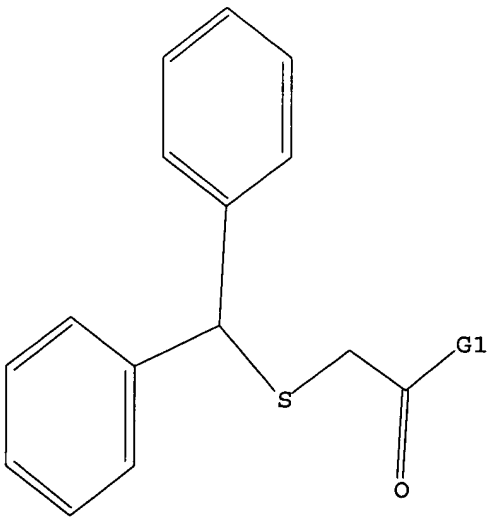
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\methoxy.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR

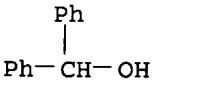


G1 MeO,EtO

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss full
FULL SEARCH INITIATED 17:44:24 FILE 'REGISTRY'

```
FULL SCREEN SEARCH COMPLETED -      5964 TO ITERATE

100.0% PROCESSED     5964 ITERATIONS                                  86 ANSWERS
SEARCH TIME: 00.00.01

L2            86 SEA SSS FUL L1

=> e benzhydrol/cn
E1            1      BENZHYDRO (DIPHENYLMETHANOL), THIOBENZOATE/CN
E2            1      BENZHYDROFLUMETHIAZIDE/CN
E3            1 --> BENZHYDROL/CN
E4            1      BENZHYDROL B-DIMETHYLAMINOETHYL ETHER HYDROCHLORIDE/CN
E5            1      BENZHYDROL DILITHIUM SALT/CN
E6            1      BENZHYDROL DIPOTASSIUM SALT/CN
E7            1      BENZHYDROL DISODIUM SALT/CN
E8            1      BENZHYDROL ETHER/CN
E9            1      BENZHYDROL GLUCURONIDE/CN
E10           1      BENZHYDROL IODOCALCIUM SALT/CN
E11           1      BENZHYDROL METHYL ETHER/CN
E12           1      BENZHYDROL, ((TRIFLUOROMETHYL)THIO)CARBAMATE/CN

=> s e3
L3            1 BENZHYDROL/CN

=> d l3

L3   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   91-01-0  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Benzenemethanol, α-phenyl-  (9CI)   (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Benzhydrol (8CI)
OTHER NAMES:
CN   α-Phenylbenzenemethanol
CN   α-Phenylbenzyl alcohol
CN   Benzhydryl alcohol
CN   Benzohydrol
CN   Diphenylcarbinol
CN   Diphenylmethanol
CN   Diphenylmethyl alcohol
CN   Hydroxydiphenylmethane
CN   NSC 32150
FS   3D CONCORD
MF   C13 H12 O
CI   COM
LC   STN Files:   AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD,
       CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*,
       EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS,
       PIRA, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
     Other Sources:   DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
```



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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

            3060 REFERENCES IN FILE CA (1907 TO DATE)
              44 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
```

3077 REFERENCES IN FILE CAPLUS (1907 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	175.36	175.57

FILE 'CAPLUS' ENTERED AT 17:46:37 ON 23 SEP 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 23 Sep 2006 VOL 145 ISS 14
FILE LAST UPDATED: 22 Sep 2006 (20060922/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l2 and l3
61 L2
3077 L3
L4 10 L2 AND L3

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.92	176.49

FILE 'REGISTRY' ENTERED AT 17:47:38 ON 23 SEP 2006
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 22 SEP 2006 HIGHEST RN 908329-88-4
DICTIONARY FILE UPDATES: 22 SEP 2006 HIGHEST RN 908329-88-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information

on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

```
=> s 106-31-0
L5            1 106-31-0
                (106-31-0/RN)

=> d l5

L5   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   106-31-0  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Butanoic acid, anhydride (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Butyric anhydride (6CI, 8CI)
OTHER NAMES:
CN   Butanoic anhydride
CN   Butanoyl anhydride
CN   Butyric acid anhydride
CN   Butyryl oxide
CN   n-Butyric acid anhydride
CN   n-Butyric anhydride
FS   3D CONCORD
DR   86977-44-8
MF   C8 H14 O3
CI   COM
LC   STN Files:   ANABSTR, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,
       CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, DETHERM*,
       GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, MRCK*, MSDS-OHS, NAPRALERT,
       PIRA, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
     Other Sources:   DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
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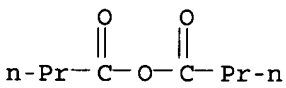


```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

            1769 REFERENCES IN FILE CA (1907 TO DATE)
              49 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
            1773 REFERENCES IN FILE CAPLUS (1907 TO DATE)
              31 REFERENCES IN FILE CAOLD (PRIOR TO 1967)


=> s 108-24-7
L6            1 108-24-7
                (108-24-7/RN)

=> d l6

L6   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   108-24-7  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Acetic acid, anhydride (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Acetic anhydride (8CI)
OTHER NAMES:
CN   Acetic oxide
```

CN Acetyl acetate
CN Acetyl anhydride
CN Acetyl ether
CN Acetyl oxide
CN Ethanoic anhydride
FS 3D CONCORD
MF C4 H6 O3
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Ac—O—Ac

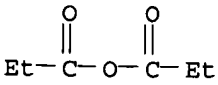
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

17932 REFERENCES IN FILE CA (1907 TO DATE)
449 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
17999 REFERENCES IN FILE CAPLUS (1907 TO DATE)
4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> s 123-62-6
L7 1 123-62-6
(123-62-6/RN)

=> d l7

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
RN 123-62-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Propanoic acid, anhydride (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Propionic anhydride (6CI, 8CI)
OTHER NAMES:
CN Methylacetic anhydride
CN Propanoic anhydride
CN Propionic acid anhydride
CN Propionyl oxide
FS 3D CONCORD
MF C6 H10 O3
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, EMBASE, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3116 REFERENCES IN FILE CA (1907 TO DATE)
55 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3132 REFERENCES IN FILE CAPLUS (1907 TO DATE)
48 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.90	184.39

FILE 'CAPLUS' ENTERED AT 17:50:24 ON 23 SEP 2006
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FILE COVERS 1907 - 23 Sep 2006 VOL 145 ISS 14
FILE LAST UPDATED: 22 Sep 2006 (20060922/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

```
=> s l5 or l6 or l7
          1773 L5
         17999 L6
          3132 L7
L8       20249 L5 OR L6 OR L7

=> d his

     (FILE 'HOME' ENTERED AT 17:43:37 ON 23 SEP 2006)

     FILE 'REGISTRY' ENTERED AT 17:43:54 ON 23 SEP 2006
L1               STRUCTURE UPLOADED
L2            86 S L1 SSS FULL
                 E BENZHYDROL/CN
L3             1 S E3

     FILE 'CAPLUS' ENTERED AT 17:46:37 ON 23 SEP 2006
L4            10 S L2 AND L3

     FILE 'REGISTRY' ENTERED AT 17:47:38 ON 23 SEP 2006
L5             1 S 106-31-0
L6             1 S 108-24-7
L7             1 S 123-62-6

     FILE 'CAPLUS' ENTERED AT 17:50:24 ON 23 SEP 2006
L8         20249 S L5 OR L6 OR L7
```

```
=> s l8 and l4
L9            1 L8 AND L4

=> d l9 ibib ab

L9   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2004:568192  CAPLUS
DOCUMENT NUMBER:          141:106271
TITLE:                    Method for preparing methyl 2-
                          diphenylmethylsulfinylacetate
INVENTOR(S):              Rose, Sebastien; Klein, Dominique
PATENT ASSIGNEE(S):       Organisation De Synthese Mondiale Orsymonde, Fr.
SOURCE:                   Eur. Pat. Appl., 16 pp.
                          CODEN: EPXXDW
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     ---------------      ----   --------    --------------------    --------
     EP 1437345            A1    20040714    EP 2003-290082          20030113
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     AU 2004203975         A1    20040729    AU 2004-203975          20040108
     CA 2512084            AA    20040729    CA 2004-2512084         20040108
     WO 2004063149         A1    20040729    WO 2004-IB2             20040108
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ
     EP 1583739            A1    20051012    EP 2004-700742          20040108
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     BR 2004006489         A     20051206    BR 2004-6489            20040108
     CN 1735591            A     20060215    CN 2004-80002147        20040108
     JP 2006516560         T2    20060706    JP 2006-500269          20040108
     NO 2005003602         A     20050722    NO 2005-3602            20050722
PRIORITY APPLN. INFO.:                       EP 2003-290082      A   20030113
                                             WO 2004-IB2         W   20040108
OTHER SOURCE(S):          CASREACT 141:106271
AB   Me 2-diphenylmethylsulfinylacetate is prepared in high yield and selectivity
     by: (i) conversion of benzhydrol into Me diphenylmethylthioacetate by the
     esterification of benzhydrol into a behydryl carboxylate (e.g., benzhydryl
     acetate) with a carboxylic anhydride (e.g., acetic anhydride), followed by
     condensation of the behydryl carboxylate with Me 2-mercaptoacetate; and
     (ii) oxidation of the Me diphenylmethylthioacetate into methyl-2-
     diphenylmethylsulfinylacetate with aqueous hydrogen peroxide.
REFERENCE COUNT:          7     THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> s l4 not l9
L10           9 L4 NOT L9

=> d l10 ibib ab 1-9

L10  ANSWER 1 OF 9  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2005:1078273  CAPLUS
DOCUMENT NUMBER:          143:366999
TITLE:                    Process for enantioselective synthesis of single
                          enantiomers of modafinil by asymmetric oxidation
INVENTOR(S):              Rebiere, Francois; Duret, Gerard; Prat, Laurence;
```

Piacenza, Guy
PATENT ASSIGNEE(S): Cephalon, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 24 pp., Cont.-in-part of U.S. Ser. No. 943,360.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005222257	A1	20051006	US 2005-82530	20050317
EP 1516869	A1	20050323	EP 2003-292312	20030919
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005080256	A1	20050414	US 2004-943360	20040917
PRIORITY APPLN. INFO.:			EP 2003-292312 A	20030919
			US 2003-507089P P	20031001
			US 2004-943360 A2	20040917

OTHER SOURCE(S): CASREACT 143:366999; MARPAT 143:366999
AB The invention relates to a method for preparing a sulfoxide compound of formula I [Y = COX wherein X = OR5; R1, R1a, R2 and R2a independently = H, halo, alkyl, alkenyl, etc.; R5 = alkyl, cycloalkyl, aryl, etc.; n = 1-3] either as a single enantiomer or in an enantiomerically enriched form, comprising the steps of: (a) contacting a pro-chiral sulfide of formula II with a metal chiral complex, a base and an oxidizing agent in an organic solvent; and optionally (b) isolating the obtained sulfoxide I.

L10 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:596933 CAPLUS
DOCUMENT NUMBER: 144:450473
TITLE: Synthesis and NMR elucidation of adrafinil
AUTHOR(S): Lu, Jiang-hai; Wang, Shan; Deng, Jing; Zhang, Yi-nong; Wu, Mou-tian; Zhang, Chang-jiu
CORPORATE SOURCE: China Doping Control Center, National Research Institute of Sports Medicine, Beijing, 100029, Peop. Rep. China
SOURCE: Zhongguo Xinyao Zazhi (2005), 14(5), 583-584
CODEN: ZXZHA6; ISSN: 1003-3734
PUBLISHER: Zhongguo Xinyao Zazhishe
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
OTHER SOURCE(S): CASREACT 144:450473
AB Synthesis of the isomers of adrafinil I via four steps using diphenylmethanol and mercaptoacetic acid with a total yield of 49.2%, is reported. The structures of the target isomers were elucidated by 1H-NMR, 13C-NMR, 1H-1H COSY, HMQC and HMBC techniques. It is the first time for the complete assignments of their 1H-NMR and 13C-NMR spectra to be reported. The synthetic procedure made it possible to further investigate adrafinil metabolites.

L10 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:479868 CAPLUS
DOCUMENT NUMBER: 143:77929
TITLE: Preparation of acetamide derivatives for treatment of fertility disorders
INVENTOR(S): Lin, Shanliang
PATENT ASSIGNEE(S): Beijing Ruikang Medical Technology Co., Ltd., Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, No pp. given
CODEN: CNXXEV
DOCUMENT TYPE: Patent

LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1523012	A	20040825	CN 2003-104869	20030221

PRIORITY APPLN. INFO.: CN 2003-104869 20030221
OTHER SOURCE(S): CASREACT 143:77929
AB Title compds. represented by the formula I [wherein A = substituted phenyl; R1 = (un)substituted Ph or pyridinyl; R2, R3 = independently H or Me; n = 1 or 2; R4, R5 = independently H, OH, alkoxy, pyridinylmethyl, alkyl; and pharmaceutically acceptable salts thereof] were prepared for treatment of male fertility disorders. For example, II was given in a multi-step synthesis starting from diphenylmethanol. II showed activity of stimulation of the sperm nos. Thus, I are useful for the treatment of human fertility disorders, such as male sterility.

L10 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:283458 CAPLUS
DOCUMENT NUMBER: 142:355044
TITLE: Process for enantioselective synthesis of single enantiomers of modafinil and related compounds by asymmetric oxidation of the corresponding sulfides in the presence of chiral metal complexes.
INVENTOR(S): Rebiere, Francois; Duret, Gerard; Prat, Laurence
PATENT ASSIGNEE(S): Cephalon France, Fr.
SOURCE: PCT Int. Appl., 60 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005028428	A1	20050331	WO 2004-IB3026	20040917
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1516869	A1	20050323	EP 2003-292312	20030919
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AU 2004274248	A1	20050331	AU 2004-274248	20040917
CA 2538697	AA	20050331	CA 2004-2538697	20040917
EP 1663963	A1	20060607	EP 2004-769402	20040917
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
NO 2006001350	A	20060405	NO 2006-1350	20060324

PRIORITY APPLN. INFO.:
EP 2003-292312 A 20030919
US 2003-507089P P 20031001
WO 2004-IB3026 W 20040917

OTHER SOURCE(S): CASREACT 142:355044; MARPAT 142:355044
AB Title compds. (I; X = cyano, COX; X = NR3R4, OH, OR5, NHNH2; R1, R1a, R2, R2a = H, halo, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cyano, CF3, NO2, OH, alkoxy, etc.; R3, R4 = H, alkyl, hydroxyalkyl, NHOH, OH; R3R4N = atoms

to form a 5-7 membered ring; n = 1-3), were prepared by contacting the corresponding prochiral sulfides with an oxidizing agent and a chiral metal complex in an organic solvent. Thus, Ph2CHSCH2CONH2 was stirred with Ti(OiPr)4, di-Et (S,S)-tartrate, and H2O in PhMe at 55° for 50 min.; the mixture was cooled to 25° followed by addition of diisopropylethylamine and cumene hydroperoxide to give after approx. 1 h 88.4% (-)-modafinil in >99.5% enantiomeric excess (at 0.30:1 ratio of Ti complex/sulfide substrate).

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:189129 CAPLUS
DOCUMENT NUMBER: 140:423446
TITLE: Synthesis and determination of the absolute configuration of the enantiomers of modafinil
AUTHOR(S): Prisinzano, Thomas; Podobinski, John; Tidgewell, Kevin; Luo, Min; Swenson, Dale
CORPORATE SOURCE: College of Pharmacy, Division of Medicinal & Natural Products Chemistry, The University of Iowa, Iowa City, IA, 52242-1112, USA
SOURCE: Tetrahedron: Asymmetry (2004), 15(6), 1053-1058
CODEN: TASYE3; ISSN: 0957-4166
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 140:423446
AB The asym. synthesis of both enantiomers of modafinil, a unique CNS stimulant with a reduced abuse liability, is described. This approach effectively preps. modafinil on a multigram scale in several steps from benzhydrol. The described synthetic route has also been used to produce the more water soluble analog, adrafinil. X-ray crystallog. anal. on (-)-(diphenylmethanesulfinyl)acetic acid has determined the absolute configuration to be R.

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1989:192421 CAPLUS
DOCUMENT NUMBER: 110:192421
TITLE: Benzhydryl compounds as herbicide antidotes
INVENTOR(S): Kaufman, Lawrence Harlan Branni
PATENT ASSIGNEE(S): Monsanto Co., USA
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 435 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 87102879	A	19871028	CN 1987-102879	19870416
CN 1024488	B	19940518		
US 4964893	A	19901023	US 1986-853301	19860417
US 5162537	A	19921110	US 1990-550002	19900709
US 5321000	A	19940614	US 1992-906107	19920629
PRIORITY APPLN. INFO.:			US 1986-853301 A	19860417
			US 1990-550002 A1	19900709

AB Benzhydryl-substituted acids, esters, amides, salts, etc., are prepared and tested as herbicide antidotes. A solution of 50 mmol HOCH2CO2Me in C6H6 was heated with a solution of 50 mmol Ph2CHCl in DMF at 120°, 100 mmol addnl. HOCH2CO2Me was added, and the mixture heated at 120° to give

7.9 g Ph2CHOCH2CO2Me, which was applied at 8.96 kg/ha with 0.14 kg/ha herbicide to show 100% protection of rice and corn, 83% protection of sorghum, and 50% protection of wheat.

L10 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1980:407872 CAPLUS
DOCUMENT NUMBER: 93:7872
TITLE: Acetamide derivatives
INVENTOR(S): Lafon, Louis
PATENT ASSIGNEE(S): Laboratoire L. Lafon S. A., Fr.
SOURCE: U.S., 6 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4177290	A	19791204	US 1978-885009	19780309
GB 1584462	A	19810211	GB 1977-13579	19770331
CH 628026	A	19820215	CH 1978-1586	19780214
CA 1091679	A1	19801216	CA 1978-299865	19780328
JP 53121724	A2	19781024	JP 1978-35406	19780329
JP 62009103	B4	19870226		
DK 7801408	A	19781001	DK 1978-1408	19780330
DK 152207	B	19880208		
DK 152207	C	19880711		
BE 865468	A1	19781002	BE 1978-56817	19780330
ES 468378	A1	19781216	ES 1978-468378	19780330
NL 7803432	A	19781003	NL 1978-3432	19780331
NL 188692	B	19920401		
NL 188692	C	19920901		

PRIORITY APPLN. INFO.: GB 1977-13579 A 19770331
OTHER SOURCE(S): MARPAT 93:7872
AB Acetamides R2CHSOCH2CONHR1 (R = Ph or, independently, Ph substituted by 1 or more F, Cl, Br, CF3, NO2, NH2, C1-4 alkyl or alkoxy, or OCH2O; R1 = H, C1-4 alkyl or hydroxyalkyl, or QNR2R3, where Q = C1-4 alkylene, R2, R3 = H or C1-4 alkyl), which had central nervous system activity, were prepared Thus, Ph2CHSCH2COCl (prepared from the acid) was treated with NH4OH and the amide was oxidized by H2O2 to give Ph2CHSOCH2CONH2, which produced hyperactivity and hypermotility in mice with absence of stereotypy.

L10 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1979:22644 CAPLUS
DOCUMENT NUMBER: 90:22644
TITLE: Acetamide derivatives
INVENTOR(S): Lafon, Louis
PATENT ASSIGNEE(S): Laboratoire L. Lafon S. A., Fr.
SOURCE: Ger. Offen., 29 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2809625	A1	19781005	DE 1978-2809625	19780306
DE 2809625	C2	19850509		
GB 1584462	A	19810211	GB 1977-13579	19770331
CH 628026	A	19820215	CH 1978-1586	19780214
CA 1091679	A1	19801216	CA 1978-299865	19780328
JP 53121724	A2	19781024	JP 1978-35406	19780329

JP 62009103	B4	19870226		
DK 7801408	A	19781001	DK 1978-1408	19780330
DK 152207	B	19880208		
DK 152207	C	19880711		
BE 865468	A1	19781002	BE 1978-56817	19780330
ES 468378	A1	19781216	ES 1978-468378	19780330
NL 7803432	A	19781003	NL 1978-3432	19780331
NL 188692	B	19920401		
NL 188692	C	19920901		

PRIORITY APPLN. INFO.: GB 1977-13579 A 19770331

AB Acetamide derivs. I (R = the same or different halo, CF3, NO2, NH2, C1-4-alkyl or -alkoxy, methylenedioxy; R1 = H, C1-4-alkyl or -hydroxyalkyl, or R2R3NQ1, where R2 and R3 = H or alkyl, or R2R3N = a 5-7-membered heterocyclyl and Q1 = C1-4-alkylene; Q = CHSO or NCO; n = 0-5), which were active central nervous system depressants in tests on mice and rats, were prepared Thus, Ph2CHSCH2COCl were treated with NH3, then oxidized by H2O2 to give Ph2CHSOCH2CONH2.

L10 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1977:534596 CAPLUS
DOCUMENT NUMBER: 87:134596
TITLE: Benzhydrylsulfinyl derivatives
INVENTOR(S): Lafon, Louis
PATENT ASSIGNEE(S): Laboratoire L. Lafon, Fr.
SOURCE: Ger. Offen., 34 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2642511	A1	19770414	DE 1976-2642511	19760922
DE 2642511	C2	19860731		
CA 1079275	A1	19800610	CA 1976-262096	19760927
FR 2326181	A1	19770429	FR 1976-29137	19760928
FR 2326181	B1	19800808		
DK 7604375	A	19770403	DK 1976-4375	19760929
DK 151009	B	19871012		
DK 151009	C	19880229		
AT 347426	B	19781227	AT 1976-7208	19760929
BE 846880	A1	19770401	BE 1976-171191	19761001
FI 7602810	A	19770403	FI 1976-2810	19761001
FI 63220	B	19830131		
FI 63220	C	19830510		
SE 7610940	A	19770403	SE 1976-10940	19761001
SE 431088	B	19840116		
SE 431088	C	19840426		
NL 7610929	A	19770405	NL 1976-10929	19761001
NL 187629	B	19910701		
NL 187629	C	19911202		
NO 7603372	A	19770405	NO 1976-3372	19761001
NO 143219	B	19800922		
NO 143219	C	19810107		
ES 452063	A1	19771001	ES 1976-452063	19761001
SU 651693	D	19790305	SU 1976-2404903	19761001
PL 105506	P	19791031	PL 1976-192811	19761001
HU 175109	P	19800528	HU 1976-LA894	19761001
CS 200195	P	19800829	CS 1976-6356	19761001
IL 50599	A1	19800916	IL 1976-50599	19761001
JP 52046058	A2	19770412	JP 1976-118908	19761002
JP 60045186	B4	19851008		
US 4127722	A	19781128	US 1977-821312	19770803

AT 346828	B	19781127	AT 1977-6492		19770909
AT 349026	B	19790312	AT 1977-6493		19770909
AT 7706493	A	19780815			
AU 511619	B2	19800828	AU 1976-18188		19780929
PRIORITY APPLN. INFO.:			GB 1975-40419	A	19751002
			US 1976-728054	A3	19760930
			AT 1976-7208	A	19770909

OTHER SOURCE(S): MARPAT 87:134596

AB Ph2CHSO(CH2)nR [I; R = CONHOH, C(:NH)NHOH, 4,5-dihydro-1H-imidazol-2-yl, morpholino, piperidino; n = 1, 2, 3] were prepared as the free bases or hydrochlorides and had useful pharmaceutical properties. Thus, Ph2CHBr treated with thiourea and NaOH gave 97.5% Ph2CHSH, which was treated with ClCH2CO2H and NaOH to give 79% Ph2CHSCH2CO2H; the acid was converted to the Et ester (93% yield), which was treated with H2NOH.HCl and KOH, yielding 87.5% Ph2CHSCH2CONHOH, and this was oxidized by H2O2 to give 73% I (R = CONHOH, n = 1), which showed antipyretic, anticonvulsant, and anticholinergic activity when tested on rats.